#### Case 406: Narrative

Case Vehicle (A): 2002 Pontiac	Vehicle (B): 2002 Ford
Type: Sunfire SE, 2-door coupe	Type: Windstar LX, minivan
Driver: 26-year-old female	Driver: 28-year-old female
CDC: 12-FZEW-2	CDC: 99-0000-0

#### SITUATION

1 2 3 4 It was daylight, the skies were clear, and the road surface was dry and free of defects as case vehicle (A) was traveling north at an EDR-documented (Event Data Recorder) speed of 49 mph (79 kph) in the northbound lane of a three-lane asphalt north-south roadway with a posted speed limit of 45 mph (72 kph). 5 6 Vehicle (B) was traveling south in the southbound lane of the same roadway and was behind vehicle (X). As all three vehicles approached a traffic-signal-controlled four-leg intersection with a three-lane east-west road, vehicle (B) and vehicle (X) moved into the left-turn lane. The driver of vehicle (X) then initiated and completed a left turn across the northbound lane to travel east on the east-west road. 7 The driver of vehicle (B) followed vehicle (X) into the intersection to initiate a left turn just before case vehicle (A) entered the intersection to continue traveling north, and 8 the front of case vehicle (A) struck the right side of vehicle (B) at the fender. Both vehicles were towed from the scene due to damage.

The police accident report indicates B-level injuries for the driver of case vehicle (A) and the driver of vehicle (B), and C-level injuries for the two passengers of vehicle (B). All occupants were transported to a local hospital where they were treated and released.

## GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

<u>9 10</u> Direct damage to case vehicle (A) was primarily to the right front. Direct damage began at the right-front bumper corner and extended 96-cm to the left, resulting in 61% vehicle overlap. <u>11</u> The maximum rearward crush at bumper level was 42 cm and it occurred at the right-front bumper corner.

Vehicle (B) was not available for inspection.

Using the missing-vehicle algorithm of the WinSMASH crash-reconstruction program and a crush profile 11 12 measured for case vehicle (A), the following impact severities were estimated:

		Calculated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	49 (31)	-46 (-29)	17 (11)
Vehicle (B)	delta V	33 (20)	-21 (-13)	-25 (-16)

Case vehicle (A) was equipped with an Event Data Recorder (EDR) that recorded a previous non-deployment event and a deployment event for this crash. The deployment-event data indicate a

maximum longitudinal velocity change of -28 mph (-45 kph) and that one-second prior to the deployment event the brakes were activated, the throttle was at 0%, and the speed was 39 mph (63 kph).

#### **DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)**

#### **Exterior**

13 Primary damage to case vehicle (A) was to the front of the vehicle which was crushed rearward on the right side. 14 The front of the hood was crushed down into the grille and radiator, both headlight assemblies were broken, and the bumper cover was cracked and separated from the bumper support and 15 was attached only at the right fender. The hood latch was damaged and jammed, 16 17 the hood hinges were damaged but not separated, and the right-rear edge of the hood was elevated but it did not contact the windshield. 18 There were diagonal cracks throughout the windshield due to cowl deformation.

19 20 On the right side of the vehicle, the fender was buckled and crushed rearward into the passenger door. 20 21 The right-front wheel was rotated out approximately 60 degrees, the wheel cover was damaged, the tire was flat, and the right-side wheelbase was decreased by 21 cm. 22 23 The right side of the roof and roof siderail were buckled up, the back of the sunroof was partially open, the upper and lower sections of the right A-pillar were damaged, and the front section of the passenger door was damaged from contact by the fender. The exterior panel of the right-side door was buckled in below the window frame and behind the door handle, the door handle was jammed up, the door was jammed shut, the door glazing was disintegrated, and the right-side mirror was missing from the mirror assembly. 24 The roof was buckled above the right-rear window, which was intact, the B-pillar was displaced slightly to the rear, there were scrape marks on the right quarter panel, the rear trim strip was displaced out to the right, and 25 the right-rear wheel cover was damaged, but the right-rear tire was intact.

24 26 There was no damage to the rear of case vehicle (A).

27 On the left side, the left-front wheel cover was damaged and the tire was flat, but there was no significant change in the wheelbase. 28 29 There was no damage to the left fender 30 or to the left A-and B-pillars, and the driver door was slightly displaced. The left-side glazing was intact and there was no damage to the quarter panel or 31 to the left-rear tire, but the left-rear wheel cover was damaged.

#### Interior

32 33 34 This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags and both deployed during the frontal impact with vehicle (B). In the driver area, 35 there was no damage to the steering-wheel airbag or to the airbag module cover, but there were small areas of grease in the center area of the airbag fabric. 36 37 There was no damage to the steering-wheel rim or spokes and there was no rotation of the steering column. 38 There were diagonal cracks throughout the windshield and the lower portion of the windshield was sagging down on top of the instrument panel, but the plastic interlayer was not torn. 39 40 There was no damage to the roof interior, to the sunvisor, to the windshield header, to the left A-pillar, or to the instrument panel. 41 42 There was a large scuffmark on the knee bolster panel directly under the steering-wheel. 43 44 There was no damage to the seatback, to the seat cushion, to the seat adjuster, to the driver door, or to the B-pillar. 45 There was no damage to the floor, to the kickpanel, to the toepan, or to the foot controls.

In the center-front area, there was no damage to the roof interior but the windshield header was

damaged. <u>46</u> The lower portion of the windshield was sagging down on the instrument panel and <u>47</u> the rearview mirror was displaced, but the windshield plastic interlayer was not torn. <u>46</u> <u>48</u> The upper-left section of the vertical console was displaced and cracked, the radio was broken and displaced from its support panel, a temperature control knob was missing, and <u>48</u> <u>49</u> there was a scuffmark on the bottom section of the vertical console. <u>50</u> There was no damage to the cup holder, to the storage area, to the transmission selector lever, or to the center console.

51 In the right-front seating area, there was no damage to the dash-mounted airbag or to the module cover but there was a small bloodstain on the right side above the center seam. 52 The windshield header was damaged, there were diagonal cracks throughout the windshield, and there was a dense circular pattern of cracks where the deploying dash-mounted airbag and/or module cover contacted the windshield. 53 54 The roof siderail was buckled above the right-front seat. 55 There was no damage to the sunvisor, to the upper vent outlet, or to the upper instrument panel, but the A-pillar was displaced rearward, 56 the glove box was displaced and jammed, and the floor mat, the toepan, and the door sill were buckled to the left. 57 58 There was no damage to the right B-pillar, to the passenger-seat cushion, to the seatback, to the seat head restraint, or to the manual seat adjuster. 59 A section of the door hardware panel was missing and the door handle was jammed.

60 61 In the left-rear seating area, there was no damage to the rear interior panel, to the left-rear seat, or to the C-pillar. The rear window headliner was slightly buckled over the left-rear seat but the window was intact.

62 63 There was no damage to the interior in the center-rear and right-rear seating areas. The back of the roof headliner was displaced down on the right side but the rear window was intact.

64 The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
	A-pillar	10	to rear
right front	instrument panel	10	to rear
right front	toepan	7	to rear
	door sill	6	to left

#### **OCCUPANT KINEMATICS AND INJURIES**

65 The 168-cm, 57-kg (5-ft 6-in, 125-lb) 26-year-old female driver was using the three-point-belt and the steering-wheel airbag deployed. 66 67 There was no evidence of belt use on the continuous loop but 68 webbing load marks on the D-ring and EDR data confirm belt use by the driver. On impact, the driver moved forward relative to the interior of the vehicle, into the three-point belt and the steering-wheel airbag. She sustained a contusion to the left breast, probably from loading by the shoulder belt.

The following table and <u>69</u> attached drawing summarize the injuries sustained by the restrained driver of case vehicle (A).

Occupant: Driver Age: 26 years		ars	Gender: Female		
Restraints: 3-point belt; steering-wheel airbag	Stature: 168 in)	Stature: 168 cm (5 ft, 6 in)		5 ft, 6 Mass: 57 kg (125 lb)	
Injury Description		A.I.S.	In	Injury Source	
_			Definite	Probable	Possible
Contusion, left breast		1	_	Shoulder belt	_
Maximum A.I.S. Level		1			
Injury Severity Score		1			

CASE NO.: 406

CASE VEHICLE: 2002 Pontiac

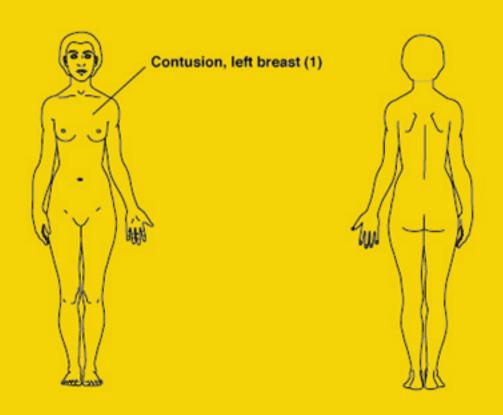
TYPE: Sunfire SE, 2-door coupe

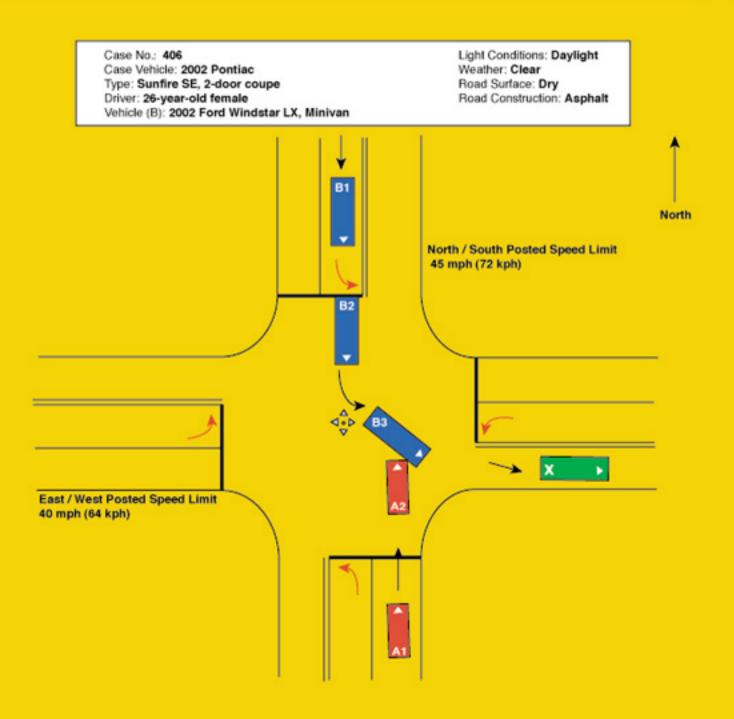
OCCUPANT: (Driver) 26-year-old female

STATURE: 168 cm (5 ft, 6 in) MASS: 57 kg (125 lb)

RESTRAINTS: 3-point belt; steering-wheel airbag

SEVERITY: MAIS - 1 ISS - 1





## **Vehicle Report**

#### Click on Section Name to jump directly to that Section —

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- Case Vehicle Intrusion
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- Case Vehicle Interior
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General Conditions

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Variable Number and Name	<b>Code Value</b>	Code Description	Other Options
V206 — Urban/Rural Area	1	Urban	more
V207 — Limited Access Highway	0	No	more
V208 — Road Total Lanes	3	3 lanes	<u>more</u>
V209 — Intersecting Road Total Lanes	3	3 lanes	more
V210 — Road Surface Type	1	Asphalt	more
V211 — Road Defects	0	No	<u>more</u>
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	10	Dry	<u>more</u>
V216 — Visibility Limitation	0	None	<u>more</u>
V217 — Visibility Obstruction	0	None	<u>more</u>
V218 — Speed Limit	4	71-79 km/h 45 mph	<u>more</u>
V219 — Precipitation Type	0	None	more
V220 — Precipitation Rate	8	Not applicable	<u>more</u>
V221 — Temperature	7	26 to 35 C 78 to 95 F	<u>more</u>

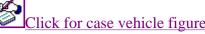
V222 — Crosswind	9	Unknown	<u>more</u>
V223 — Light Conditions	1	Daylight	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	0	No	more
V226 — Case Vehicle Rollover	0	No	<u>more</u>
V227 — Case Vehicle Ran Off Roadway	0	No	<u>more</u>
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	<u>more</u>
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	more
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	more
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	<u>more</u>
V232 — Any Fire in Crash	0	No	more
V233 — Max Police Severity-PAR	2	B - Non-Incapacitating Injury	<u>more</u>
V234 — Driver Alcohol Involvement	0	Had not been drinking	more
V235 — Driver Alcohol BAC	80	Not tested	more
V236 — Driver Impairment Mention	0	No	more
V237 — Driven/Towed From Scene	2	Towed Due to Damage	more

Other Vehicle Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	2FMZA51492BB	_	
V302 — Other Vehicle Manufacturer/Body Code	12111	_	_
V303 — Other Vehicle Manufacturer	121	Ford	<u>more</u>
V304 — Other Vehicle Body Code	11	Passenger van; panel or cargo van	more
V305 — Other Vehicle Make/Model	3133	Windstar	more
V306 — Other Vehicle Model Year	2002	_	
V307 — Other Vehicle Mass	001765 kg	_	
V308 — Other Vehicle Number	0	No separate report	more
V309 — Other Vehicle Number of Occupants	03	_	_
V310 — Other Vehicle Traveling Speed	999	Unknown	more

V311 — Highest Police Injury Severity	2	B - Non-Incapacitating Injury	more
V312 — Other Vehicle Type	11	Small van (e.g. Econoline)	<u>more</u>
V313 — Other Vehicle Wheelbase (cm)	307 cm	_	_
V314 — Average Track Width	162 cm	_	
V315 — Overall Length	511 cm	_	
V316 — Overall Width (OAW)	192 cm	_	
V317 — Front Overhang (FOH)	101 cm	_	
V318 — Rear Overhang (ROH)	103 cm	_	
V319 — Undeformed End Width (UEW)	999	Unknown	more
V320 — Engine Displacement	3.8 <i>l</i>	_	
V321 — Engine: Number of Cylinders	06	_	_
V322 — Direct Damage Length (DDL)	999	Unknown	<u>more</u>
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	<u>more</u>
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	<u>more</u>

#### Case Vehicle General



Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1G2JB12F1274	_	
V402 — Manufacturer/Body Code	11527	_	
V403 — Vehicle Manufacturer	115	Pontiac	<u>more</u>
V404 — Vehicle Body Code	27	_	
V405 — Make/Model Code	0352	_	
V406 — Model Year	2002	_	
V407 — Vehicle Mass	001182 kg	_	
V408 — Odometer Reading	027622 miles	_	
V409 — Number of Occupants	01	_	
V410 — Traveling Speed	079 kph	_	
V411 — Body Type	12	2-door sedan or coupe (any upper B-pillar)	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	2	Unitized	<u>more</u>
V414 — Transmission Type	1	Automatic	more

V415 — Transmission Lever Location	2	Console	<u>more</u>
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	<u>more</u>
V418 — Brake Type	2	Disc - front wheels	<u>more</u>
V419 — Brake Anti-lock Device	2	Four-wheel	<u>more</u>
V420 — Air Conditioning in Vehicle	8	Not currently collected	<u>more</u>
V421 — Drive Type	2	Front wheel	<u>more</u>
V422 — Dual Rear Wheels	0	No	<u>more</u>
V423 — Original Restraint System Type	3	Airbag	more
V424 — Equipped With Roll Bar	0	No	<u>more</u>
V425 — Roof Type	4	Sun roof closed	more
V426 — Wheelbase	264 cm	_	_
V427 — Anti-lacerative Glass	0	None	<u>more</u>
V428 — Average Track Width	145 cm	_	
V429 — Overall Length	461 cm	_	
V430 — Overall Width (OAW)	174 cm	_	
V431 — Front Overhang	100 cm	_	
V432 — Rear Overhang	098 cm	_	
V433 — Undeformed End Width (UEW)	155 cm	_	_
V434 — Engine Displacement	2.2 <i>l</i>	_	
V435 — Engine: Number of Cylinders	04		
V436 — Direct Damage Length (DDL)	096 cm		
V437 — Front End Overlap % (FEO)	62	_	
V438 — Vehicle Overlap % (VOL)	61	_	

### Case Vehicle Damage Description

Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	042 cm	_	
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	more
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	<u>more</u>
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	<u>more</u>

V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	more
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	13	FRONT of case veh - SIDE of contacted Vehicle	more
V510 — Event 1 Object/Vehicle Contacted	11	Small van (e.g. Econoline)	more
V511 — Event 2 Impact Location	8	No 2nd event	<u>more</u>
V512 — Event 2 Impact Configuration	88	No 2nd event	more
V513 — Event 2 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V514 — Event 3 Impact Location	8	No 3rd event	more
V515 — Event 3 Impact Configuration	88	No 3rd event	more
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V517 — Event 4 Impact Location	8	No 4th event	<u>more</u>
V518 — Event 4 Impact Configuration	88	No 4th event	more
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V520 — Event 5 Impact Location	8	No 5th event	<u>more</u>
V521 — Event 5 Impact Configuration	88	No 5th event	more
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V523 — Event 6 Impact Location	8	No 6th event	<u>more</u>
V524 — Event 6 Impact Configuration	88	No 6th event	more
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V526 — Event 7 Impact On Road	8	No 7th event	more
V527 — Event 7 Impact Configuration	88	No 7th event	more
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	more
V530 — Primary CDC Case Vehicle	063		

- impact speed		_	_
V531 — Primary CDC Case Vehicle - Estimated By	7	Other	more
V532 — Primary CDC Case Vehicle -crush	042	_	_
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	more
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	more
V535 — Primary CDC Case Vehicle letter 2 #1	26	Z - Side or end $(B + P  or  R + C)$	more
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	more
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	more
V538 — Primary CDC Case Vehicle Extent #1	02	Extent 2	more
V539 — Primary CDC Case Vehicle -CDC #1	12FZEW2	_	_
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V546 — Primary CDC Case Vehicle -CDC #2	9800000	_	_
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	more
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	more
V549 — Primary CDC Contacted Vehicle -crush	999	Unknown	more
V550 — Primary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more

V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	<u>more</u>
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V556 — Primary CDC Contacted Vehicle -CDC #1	9900000	_	_
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<u>more</u>
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	_	_
V564 — Secondary CDC Case Vehicle - Event No	8	Not applicable	more
V565 — Secondary CDC Case Vehicle - Impact Speed	998	Not Applicable	more
V566 — Secondary CDC Case Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more
V567 — Secondary CDC Case Vehicle -crush	998	Not Applicable	more
V568 — Secondary CDC Case Vehicle -clock #1	98	Not Applicable	more
V569 — Secondary CDC Case Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V570 — Secondary CDC Case Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V571 — Secondary CDC Case Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V572 — Secondary CDC Case Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V573 — Secondary CDC Case Vehicle Extent #1	00	Missing Data/Not applicable	more
V574 — Secondary CDC Case Vehicle -CDC #1	9800000	_	_
V576 — Secondary CDC Case	00	Missing Data/Not applicable	more

Vehicle letter 1 #2			
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	_	
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more
V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	more
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	_	_
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V594 — Secondary CDC Contacted Vehicle letter 2 #2	0.0	Missing Data/Not applicable	more
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000		

Crash Severity Back to Top

Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	_	_
V602 — Primary Impact Total Delta-V	049 kph	_	_
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-046 kph		_
V604 — Primary Case Vehicle Reconstructed Lateral Delta- V	0017 kph		_
V605 — Primary Case Vehicle Reconstructed Crush Energy	0063 kJ	_	_
V606 — Primary Impact Case Vehicle - reconstuction	22	Reconstructed, moderate confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed	033 kph	_	

Total Delta-V			
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	-021 kph		
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V	-025 kph	_	_
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0204 kJ	_	_
V612 — Case Vehicle Secondary Impact Number	8	_	_
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	888	N/A	more
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	8888		_
V615 — Secondary Case Vehicle Reconstructed Lateral Delta- V	8888		_
V616 — Secondary Case Vehicle Reconstructed Crush Energy	8888	_	_

V617 — Secondary Case Vehicle Reconstruction Note	88	_	_
V618 — Secondary Case Vehicle Reconstruction Mode		Not applicable	<u>more</u>
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	<u>more</u>
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888		_
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta- V	8888		_
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888		_
V623 — Case Vehicle Primary Impact Number	1		_
V624 — Primary Case Vehicle Reconstructed Total EBS	049 kph		_
V625 — Primary Case	-046 kph		

Vehicle Reconstructed Longitudinal EBS		_	_
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0017 kph	_	_
V627 — Primary Case Vehicle Reconstructed Crush Energy	0063 kJ		_
V628 — Primary Case Vehicle Reconstruction Note		Reconstructed, moderate confidence level	more
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	<u>more</u>
V630 — Primary Contacted Vehicle Reconstruction Total EBS	033 kph		_
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	-021 kph		
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	-025 kph		_
V633 — Primary Contacted Vehicle Reconstruction	0204 kJ	_	_

Crush Energy			
V634 — Case Vehicle Secondary Impact Number	8	Not applicable	more
V635 — Secondary Case Vehicle Reconstruction Total EBS	888	N/A	more
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	8888	_	_
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	8888		
V638 — Secondary Case Vehicle Reconstruction Crush Energy	8888	_	_
V639 — Secondary Case Vehicle Reconstruction Note	88	_	_
V640 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	more
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	more
V642 — Secondary Contacted Vehicle	8888	_	_

Reconstruction Longitudinal EBS			
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	_	_
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	_	_
V645 — Case Vehicle Reconstructed Impact Number	1	_	_
V646 — Case Vehicle Impact 1 Plane	1	Bumper	<u>more</u>
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	096 cm	_	_
V648 — Case Vehicle Impact 1 Max Crush	042 cm	_	_
V649 — Case Vehicle Impact 1 Field-L	104 cm	_	_
V650 — Case Vehicle Impact 1 C1	004 cm	_	_
V651 — Case Vehicle Impact 1 C2	016 cm	_	_
V652 — Case Vehicle Impact 1 C3	026 cm		_
V653 — Case	033 cm		

Vehicle Impact 1 C4		_	_
V654 — Case	038 cm		
Vehicle		_	_
Impact 1 C5			
V655 — Case	042 cm		
Vehicle Impact 1 C6		_	_
V656 — Case	0030 cm		
Vehicle		_	_
Impact 1 +/- D			
V657 — Case	2		
Vehicle Reconstructed		_	
Impact			
Number			
V658 — Case	8		
Vehicle		Not applicable	<u>more</u>
Impact 2 Plane	998		
V659 — Case Vehicle	990		
Impact 2		N. 4. P. 11	
Direct		Not applicable	<u>more</u>
Damage			
Length [DDL]	998		
V660 — Case Vehicle	990		
Impact 2 Max		Not applicable	<u>more</u>
Crush			
V661 — Case	998		
Vehicle		Not applicable	<u>more</u>
Impact 2 Field-L		a de approved	======
V662 — Case	998		
Vehicle		Not applicable	more
Impact 2 C1		Tr ·····	
V663 — Case	998		
Vehicle		Not applicable	<u>more</u>
Impact 2 C2			
V664 — Case	998	Nadamalias III	
Vehicle Impact 2 C3		Not applicable	<u>more</u>
V665 — Case	998		
Vehicle Vehicle		Not applicable	<u>more</u>
Impact 2 C4			
V666 — Case	998		

Vehicle Impact 2 C5		Not applicable	<u>more</u>
V667 — Case Vehicle Impact 2 C6	998	Not applicable	more
V668 — Case Vehicle Impact 2 +/- D	9998	_	_
V669 — Other Vehicle Reconstructed Impact Number	1	_	_
V670 — Other Vehicle Impact 1 Plane	9	Unknown	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	more
V672 — Other Vehicle Impact 1 Max Crush	999	Unknown	more
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	more
V674 — Other Vehicle Impact 1 C1	999	Unknown	more
V675 — Other Vehicle Impact 1 C2		Unknown	more
V676 — Other Vehicle Impact 1 C3	999	Unknown	more
V677 — Other Vehicle Impact 1 C4	999	Unknown	more
V678 — Other Vehicle Impact 1 C5	999	Unknown	more
V679 — Other	999		

Vehicle		Unknown	more
Impact 1 C6		Chriown	more
V680 — Other Vehicle Impact 1 +/- D	0999 cm	_	_
V681 — Other	2	7	
Vehicle Reconstructed Impact	_		_
Number			
V682 — Other Vehicle Impact 2 Plane	8	Not applicable	more
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	more
V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	more
V686 — Other Vehicle Impact 2 C1	998	Not applicable	more
V687 — Other Vehicle Impact 2 C2	998	Not applicable	more
V688 — Other Vehicle Impact 2 C3	998	Not applicable	<u>more</u>
V689 — Other Vehicle Impact 2 C4	998	Not applicable	<u>more</u>
V690 — Other Vehicle Impact 2 C5	998	Not applicable	more
V691 — Other Vehicle Impact 2 C6	998	Not applicable	more
V692 — Other	9998		

Vehicle		
Impact 2 +/- D	_	

## Case Vehicle Tires & Rims

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Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	1	Yes	more
V702 — Right Front Wheel Damaged	1	Yes	more
V703 — Right Rear Wheel Damaged	0	No	more
V704 — Left Rear Wheel Damaged	0	No	<u>more</u>
V705 — Left Front Tire Tread Type	4	All Weather	<u>more</u>
V706 — Right Front Tire Tread Type	4	All Weather	more
V707 — Right Rear Tire Tread Type	4	All Weather	more
V708 — Left Rear Tire Tread Type	4	All Weather	<u>more</u>
V709 — Left Front Carcass Construction	3	Radial	more
V710 — Right Front Carcass Construction	3	Radial	more
V711 — Right Rear Carcass Construction	3	Radial	more
V712 — Left Rear Carcass Construction	3	Radial	<u>more</u>
V717 — Left Front Tire Size	P195/65R15	_	
V718 — Right Front Tire Size	P195/65R15	_	
V719 — Right Rear Tire Size	P195/65R15	_	
V720 — Left Rear Tire Size	P195/65R15	_	

# Case Vehicle Fuel, Tank, Fire

Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	<u>more</u>
V802 — Main Tank Location	322	Within frame/centered laterally -	more

		within vertically	
V803 — Main Filler Cap Location	133	_	
V804 — Main Tank Material	1	Steel	<u>more</u>
V805 — Aux Tank Type	8	Not applicable (not equipped)	<u>more</u>
V806 — Aux Tank Location	888	Not applicable (not equipped)	<u>more</u>
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	<u>more</u>
V808 — Aux Tank Material	8	Not applicable	<u>more</u>
V901 — Fuel Leakage From Crash	0	No	<u>more</u>
V1001 — Fire In Or On Case Vehicle	0	No	more

### Case Vehicle Exterior

Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	0	No	more
V1102 — Hood Latch Damaged	1	Yes	<u>more</u>
V1103 — Hood Latch Jammed	1	Yes	<u>more</u>
V1104 — Left Hood Hinge Damaged	1	Yes	<u>more</u>
V1105 — Left Hood Hinge Separated	0	No	<u>more</u>
V1106 — Right Hood Hinge Damaged	1	Yes	<u>more</u>
V1107 — Right Hood Hinge Separated	0	No	<u>more</u>
V1108 — Hood Remained On Vehicle	1	Yes	<u>more</u>
V1109 — Rear Hood Edge Elevated	1	Yes	<u>more</u>
V1110 — Edge Contacted Windshield	0	No	<u>more</u>
V1111 — Edge Penetrated Windshield	8	Not applicable	<u>more</u>
V1112 — Hood Latch Location	1	Front of Vehicle	<u>more</u>
V1113 — Eng/Transmissn Mount Separation	0	No	<u>more</u>
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng Column Coupling Separated	9	Unknown	<u>more</u>
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more
V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	more

V1120 — Upper Left A-pillar Separation	0	No	more
V1121 — Lower Left A-pillar Separation	0	No	more
V1122 — Upper Left B-pillar Separation	0	No	more
V1123 — Lower Left B-pillar Separation	0	No	more
V1124 — Upper Left C-pillar Separation	0	No	<u>more</u>
V1125 — Lower Left C-pillar Separation	8	Not applicable (not equipped)	<u>more</u>
V1126 — Upper Left D-pillar Separation	8	Not applicable (not equipped)	<u>more</u>
V1127 — Lower Left D-pillar Separation	8	Not applicable (not equipped)	<u>more</u>
V1128 — Left Front Door Opening Cause	0	Door did not open	more
V1129 — Left Rear Door Opening Cause	8	Not applicable (no left rear door)	more
V1130 — Left Front Door Jammed Closed	0	No	more
V1131 — Left Rear Door Jammed Closed	8	Not applicable (no left rear door)	more
V1132 — Rear Door Type	0	No door (includes pickups)	<u>more</u>
V1133 — Rear Door Opening Cause	8	Not applicable (no rear door)	<u>more</u>
V1134 — Rear Door Jammed Closed	8	Not applicable (no rear door)	<u>more</u>
V1135 — Luggage Partition Damagd	0	No	<u>more</u>
V1136 — Spare Tire Status	8	Not collected	<u>more</u>
V1137 — Trailer Hitch Type	0	No hitch	<u>more</u>
V1138 — Trailer Type	0	No trailer	<u>more</u>
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	more
V1140 — Upper Right A-pillar Separation	4	No separation, but damaged	more
V1141 — Lower Right A-pillar Separation	4	No separation, but damaged	more
V1142 — Upper Right B-pillar Separation	4	No separation, but damaged	more
V1143 — Lower Right B-pillar Separation	4	No separation, but damaged	more
V1144 — Upper Right C-pillar	0	No	more

Separation			
V1145 — Lower Right C-pillar Separation	8	Not applicable (not equipped)	<u>more</u>
V1146 — Upper Right D-pillar Separation	8	Not applicable (not equipped)	<u>more</u>
V1147 — Lower Right D-pillar Separation	8	Not applicable (not equipped)	<u>more</u>
V1148 — Right Front Door Opening Cause	00	Door did not open	<u>more</u>
V1149 — Right Rear Door Opening Cause	98	Not applicable (no right rear door)	<u>more</u>
V1150 — Right Front Door Jammed Closed	1	Yes	<u>more</u>
V1151 — Right Rear Door Jammed Closed	8	Not applicable (no right rear door)	more
V1152 — Van Rear Door Type	8	Not applicable (not a van)	<u>more</u>
V1153 — Windshield Cracked	Click for windshield damage figure	Yes	more
V1154 — Windshield Broken	0	No	<u>more</u>
V1155 — Windshield Cracked or Broken by Occupant	0	No	more
V1156 — Bond Separation Extent	0	None	<u>more</u>
V1157 — Windshield Code	Click for windshield code figure	_	_
V1158 — Did Sun/T Roof Open	1	Yes	more

### Case Vehicle Steering Column/Rim

Variable Number and Name	<b>Code Value</b>	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	0	None	<u>more</u>
V1202 — Number of Steering Wheel Spokes	4	4 spokes	more

V1203 — Steering Wheel Spoke Damage	0	None	more
V1204 — Column Tilt Feature	3	Middle	<u>more</u>
V1205 — Column Swing-away Feature	0	Not equipped	<u>more</u>
V1206 — Column Telescoping Feature	0	Not equipped	<u>more</u>
V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	0	No apparent rotation	more
V1213 — Column Lateral Rotation	0	No apparent rotation	more
V1214 — Steering Wheel Hub Damage	0	None	more

#### Case Vehicle Intrusion



lick for intrusion figures

Variable Number and Name	<b>Code Value</b>	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	more
V1302 — Was Intrusion Catastrophic	0	No	<u>more</u>
V1303 — Intrusion Number 01	01	Intrusion #1	more
V1304 — Intrusion 01 Occupant Space Number	13	First row, Right seat	more
V1305 — Intrusion 01 Intruding Object	08	A-pillar	more
V1306 — Intrusion 01 Assoc Event Number	1	Event #1	more
V1307 — Intrusion 01 Max Intrusion X-axis	10 cm	_	_
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more

V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	<u>more</u>
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1314 — Intrusion Number 02	02	Intrusion #2	more
V1315 — Intrusion 02 Occupant Space Number	13	First row, Right seat	more
V1316 — Intrusion 02 Intruding Object	01	Instrument panel	more
V1317 — Intrusion 02 Assoc Event Number	1	Event #1	more
V1318 — Intrusion 02 Max Intrusion X-axis	10 cm	_	_
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<u>more</u>
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	<u>more</u>
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	<u>more</u>
V1325 — Intrusion Number 03	03	Intrusion #3	more
V1326 — Intrusion 03 Occupant Space Number	13	First row, Right seat	more
V1327 — Intrusion 03 Intruding Object	03	Toe pan	more
V1328 — Intrusion 03 Assoc Event Number	1	Event #1	more
V1329 — Intrusion 03 Max Intrusion X-axis	07 cm	_	_
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	<u>more</u>
V1334 — Intrusion 03 Occupant	00	No contact or no intrusion	<u>more</u>

Number			
V1335 — Intrusion 03 Injury Number	00	No injury or no intrusion	<u>more</u>
V1336 — Intrusion Number 04	04	Intrusion #4	<u>more</u>
V1337 — Intrusion 04 Occupant Space Number	13	First row, Right seat	more
V1338 — Intrusion 04 Intruding Object	30	Sill	more
V1339 — Intrusion 04 Assoc Event Number	1	Event #1	more
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1341 — Intrusion 04 Max Intrusion Y-axis	06 cm	_	_
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	<u>more</u>
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1346 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1347 — Intrusion Number 05	00	No Intrusion, None	more
V1348 — Intrusion 05 Occupant Space Number	0.0	No Intrusion, None	more
V1349 — Intrusion 05 Intruding Object	0.0	No Intrusion, None	more
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	more
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	<u>more</u>
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	99	Contact, injury unknown or data not collected	more
V1358 — Intrusion Number 06	00	No Intrusion, None	more

V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	more
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	more
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	more
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	<u>more</u>
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	more
V1369 — Intrusion Number 07	00	No Intrusion, None	more
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	more
V1371 — Intrusion 07 Intruding Object	0.0	No Intrusion, None	more
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	more
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	<u>more</u>
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	more
V1380 — Intrusion Number 08	00	No Intrusion, None	more
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	more
V1382 — Intrusion 08 Intruding	00		

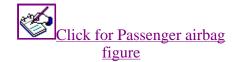
Object		No Intrusion, None	<u>more</u>
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	<u>more</u>
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	<u>more</u>
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	more
V1391 — Intrusion Number 09	00	No Intrusion, None	<u>more</u>
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	more
V1393 — Intrusion 09 Intruding Object	0.0	No Intrusion, None	more
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	more
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1398 — Intrusion 09 Occupant Number	0.0	No contact or no intrusion	more
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	<u>more</u>
V1400 — Intrusion 09 Occupant Number	0.0	No contact or no intrusion	more
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	more
V1402 — Intrusion Number 10	00	No Intrusion, None	more
V1403 — Intrusion 10 Occupant Space Number	0.0	No Intrusion, None	more
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	more
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	more

l			
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<u>more</u>
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	<u>more</u>
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	more
V1413 — Door Intrusion Number 01	88	Not Applicable	<u>more</u>
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	more
V1415 — Door Intrusion Number 02	88	Not Applicable	more
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	more
V1417 — Door Intrusion Number 03	88	Not Applicable	more
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	more
V1419 — Door Intrusion 01 Component	88	Not Applicable	more
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	more
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	more
V1422 — Door Intrusion 02 Component	88	Not Applicable	more
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	more
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	more
V1425 — Door Intrusion 03 Component	88	Not Applicable	more
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	more
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	more
V1428 — Door Intrusion 04 Component	88	Not Applicable	more
V1429 — Door Intrusion 04	8		

Component Damaged 1		Not Applicable	<u>more</u>
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	more

Case Vehicle Airbag(s)





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Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	<u>more</u>
V1502 — Driver Airbag Deployed	1	Yes	<u>more</u>
V1503 — Driver Airbag Condition	0	No Damage	<u>more</u>
V1504 — Passenger Airbag Equip	1	Yes	<u>more</u>
V1505 — Passenger Airbag Deployed	1	Yes	more
V1506 — Passenger Airbag Condition	0	No Damage	more
V1507 — Steering Wheel Airbag Tether	0	No	more
V1508 — Driver Airbag Marked By Contact	0	No	more
V1509 — Passenger Airbag Tether	1	Yes	<u>more</u>
V1510 — Passenger Airbag Marked By Contact	1	Yes	more

#### Case Vehicle Interior

Variable Number and Name	<b>Code Value</b>	Code Description	Other Options
V1601 — Left Front Door Damaged	0	No	more
V1602 — Right Front Door Damaged	0	No	<u>more</u>
V1603 — Left Front Hardware Damaged	0	No	<u>more</u>
V1604 — Right Front Hardware Damaged	1	Yes	more
V1605 — Left Front Armrest Damaged	0	No	more
V1606 — Right Front Armrest Damaged	0	No	more
	0		

V1607 — Left Front Glass Damaged		No	<u>more</u>
V1608 — Right Front Glass Damaged	1	Yes	more
V1609 — Left Rear Door Area Damaged	0	No	more
V1610 — Right Rear Door Area Damaged	0	No	more
V1611 — Left Rear Hardware Damaged	0	No	more
V1612 — Right Rear Hardware Damaged	0	No	more
V1613 — Left Rear Armrest Damaged	0	No	more
V1614 — Right Rear Armrest Damaged	0	No	<u>more</u>
V1615 — Left Rear Glass Damaged	0	No	<u>more</u>
V1616 — Right Rear Glass Damaged	0	No	<u>more</u>
V1617 — Left Roof Side Rail Damaged	0	No	more
V1618 — Right Roof Side Rail Damaged	1	Yes	more
V1619 — Left B-pillar Damaged	0	No	<u>more</u>
V1620 — Right B-pillar Damaged	0	No	<u>more</u>
V1621 — Left C-pillar Damaged	0	No	<u>more</u>
V1622 — Right C-pillar Damaged	0	No	<u>more</u>
V1623 — Left D-pillar Damaged	8	Not applicable	<u>more</u>
V1624 — Right D-pillar Damaged	8	Not applicable	<u>more</u>
V1625 — Left Headlining Damaged	0	No	<u>more</u>
V1626 — Right Headlining Damaged	0	No	<u>more</u>
V1627 — Left Roof Structure Damaged	0	No	more
V1628 — Right Roof Structure Damaged	0	No	more
V1629 — Left T/Sun Roof Damaged	0	No	<u>more</u>
V1630 — Right T/Sun Roof Damaged	0	No	more
V1631 — Other Left Side Item Damagd	8	Not applicable	more
V1632 — Other Right Side Item Damagd	8	Not applicable	more
V1633 — Foot Controls Damaged	0	No	more
V1634 — Ignition Key Damaged	0	No	more
V1635 — Rear View Mirror Damaged	1	Yes	more

V1636 — Sunvisor/Fitting Damaged	0	No	<u>more</u>
V1637 — Windshield Molding Damaged	0	No	more
V1638 — Left A-pillar Damaged	0	No	<u>more</u>
V1639 — Right A-pillar Damaged	1	Yes	<u>more</u>
V1640 — Center Console Damaged	0	No	<u>more</u>
V1641 — Transmission Lever Damaged	0	No	more
V1642 — Horn/Spoke Shroud Damagd	0	No	more
V1643 — Upper Panel Damaged	0	No	<u>more</u>
V1644 — Mid Panel Damaged	1	Yes	<u>more</u>
V1645 — Lower Panel Damaged	4	Yes, occupant contact	<u>more</u>
V1646 — Ashtray Damaged	8	Not applicable	<u>more</u>
V1647 — Control Knob/Lever Damaged	1	Yes	more
V1648 — Glove Compartment Area Damaged	1	Yes	more
V1649 — Instruments Damaged	0	No	more
V1650 — Park Brake Release Damaged	0	No	more
V1651 — Park Brake Pedal Damaged	8	Not applicable	<u>more</u>
V1652 — A/C Or Upper Vent Damaged	0	No	more
V1653 — Heater Or A/C Duct Damaged	0	No	more
V1654 — Radio Damaged	0	No	<u>more</u>
V1655 — Other Item Damaged	8	Not applicable	<u>more</u>
V1656 — Rear Window Damaged	0	No	more
V1657 — Rear Window Header Damaged	0	No	more
V1658 — Vertical Console Damaged	4	Yes, occupant contact	more
V1659 — Roof Console Damaged	8	Not applicable	more

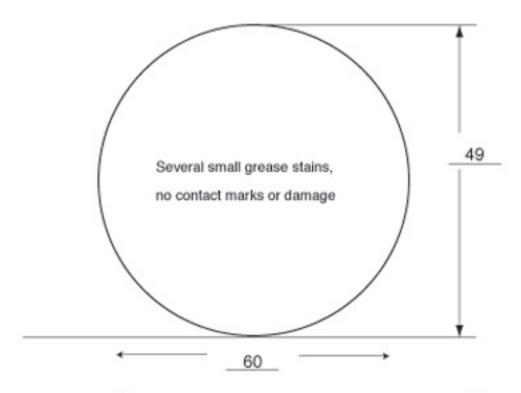
Case Vehicle Seats

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Variable Number and Name	<b>Code Value</b>	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	<u>more</u>
V1702 — Passenger Front Seat Type	05	Bucket	<u>more</u>

V1703 — Driver Seat Mount Type	1	Standard	<u>more</u>
V1704 — Passenger Seat Mount Type	1	Standard	more
V1705 — Driver Swivel Mechanism Equipped	0	No	more
V1706 — Passenger Swivel Mechanism Equipped	0	No	more
V1707 — Driver Seat Original Equipment	1	Yes	<u>more</u>
V1708 — Passenger Seat Original Equipment	1	Yes	<u>more</u>
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	more
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	more
V1711 — Driver Seat Damage	0	None	<u>more</u>
V1712 — Passenger Seat Damage	0	None	<u>more</u>
V1713 — Center Front Armrest Damaged	0	No	more
V1714 — Driver Seat Rotation	0	None apparent	more
V1715 — Passenger Seat Rotation	0	None apparent	<u>more</u>
V1716 — Driver Seat-back Type	3	Reclining	more
V1717 — Passenger Seat-back Type	3	Reclining	more
V1718 — Driver Seat-back Lock Type	1	Manual	more

### **Driver Airbag**



Vents: (Y) N

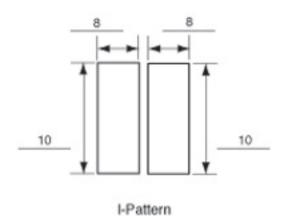
if yes, how many: \_\_\_2

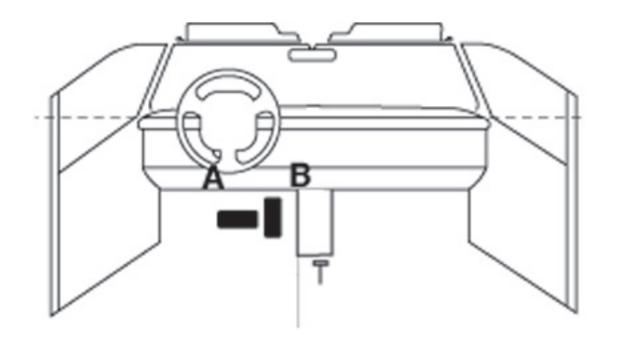
Tethers: Y (N

if yes, how many:

Vents @ 3 and 9 o'clock

#### **Driver Airbag Doors**





A = Knee bolster, scuffmark

B = Vertical console, scuffmark

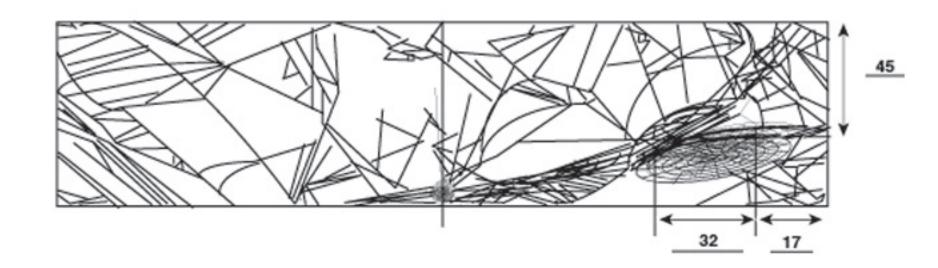
## 1 = Definitely 2 = Probably 3 = Possible

# INTRUSION IT-1

		(All Me	Dominant				
Location of Intrusion	Intruded Component	Comparison Value	-	Intruded Value	=	Intrusion	Crush Direction
13	A-pillar	97	_	87	=	10	to rear
13	Instrument panel	80	_	70	=	10	to rear
13	Toepan	52	_	45	=	7	to rear
13	Door sill	67	_	61	=	6	to left
			_		=		
			_		=		
			_		=		
			_		=		
			_		=		
			_		=		
					=		
			_		=		

## OCCUPANT CONTACT WORKSHEET

	Interior	Occupant	Body		Confidence Level of
Contact	Component Contacted	No. if Known	Region if Known	Supporting Physical Evidence	Contact Point
A	Knee Bolster	1	Left Lx	Scuffmark	2
В	Vertical Console	1	Right Lx	Scuffmark	3
С					
D					
Е					
F					
G					
Н					
I					
J					
K					
L					
М					

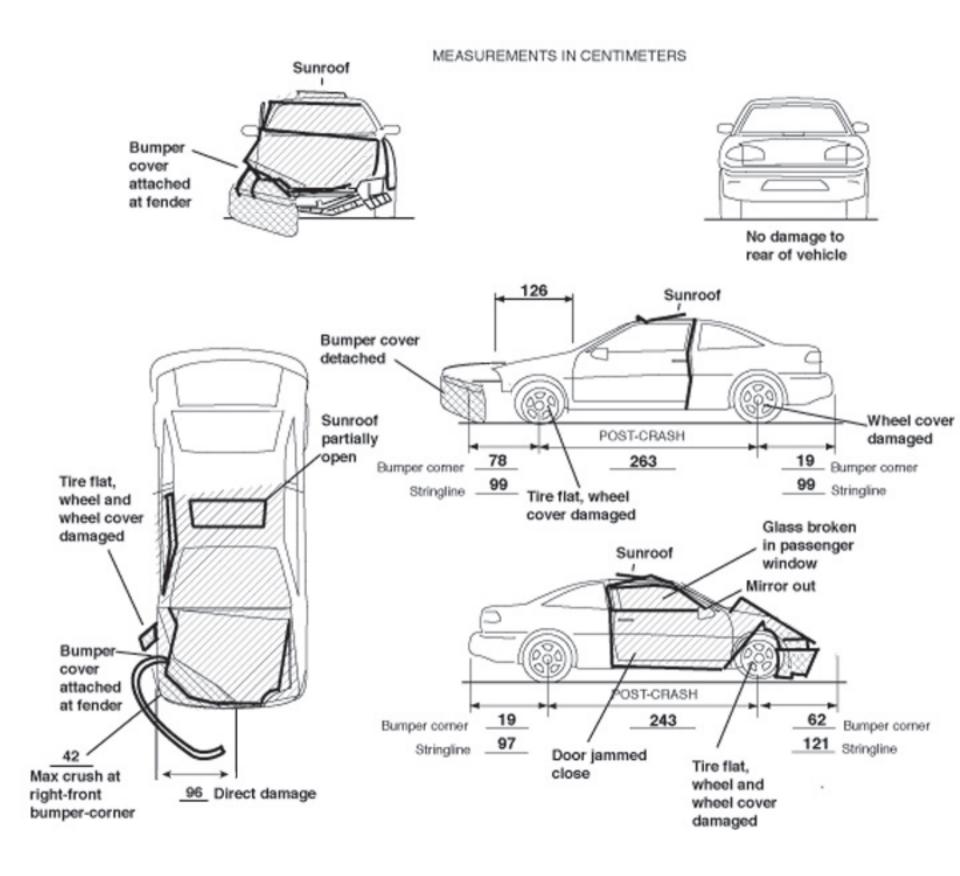


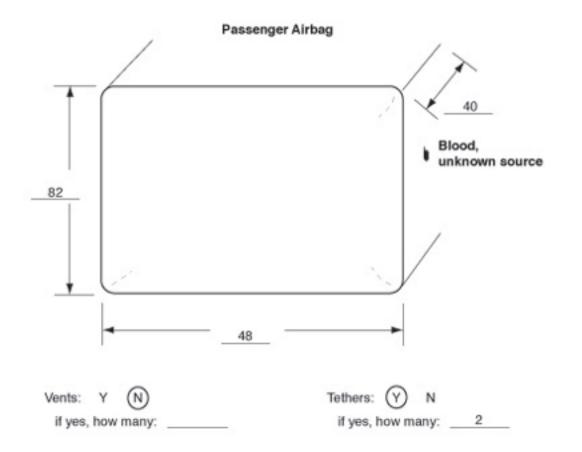
# WINDSHIELD MARK ON CASE VEHICLE:

SOFT-RAY

SAFETY FLO-LITE 28 2

LAMINATED 4
...
DOT 18 M405
COUPE





Passenger Airbag Door

Single Door

